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Patent
PD-089418A
Customer No. 020991

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Donald C.D. Chang
et al.

Serial No.: 09/973,270
Filed: October 5, 2001

For: SAMPLING TECHNIQUE FOR
DIGITAL BEAM FORMER

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Georgann S. Grunebach

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Group Art Unit: 2634
Examiner: Linda Wong

Date: July 14, 2005

SUPPLEMENTAL DISCLOSURE STATEMENT
UNDER 37 C.F.R. § 1.97 (c)

Mail Stop Amendment
Commissioner for Patents
P. O. Box 1450
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Dear Sir:

The references cited on the enclosed form PTO/SB/08A may be relevant or material to the examination of the above-identified patent application and are, therefore, submitted in compliance with the duty of disclosure defined in 37 C.F.R. §1.56.

This statement should be considered because it is submitted after the mailing date of a first Office action on-the-merits, but before the mailing of any of a final action under § 1.113, a notice of allowance under § 1.311, or an action that otherwise closes prosecution in the application.

In accordance with 37 C.F.R. § 1.97 (c)(2), submitted herewith is the fee set forth in 37 C.F.R. § 1.17(p) for submission of an information disclosure statement.

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PAYMENT OF FEE SET FORTH IN §1.17(p)

Please charge Deposit Account No. 50-0383 of Hughes Electronics Corporation, El Segundo, California, in the amount of \$180.00. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to that account. **This form is being submitted in duplicate.**

This Information Disclosure Statement is not to be construed as a representation that a search has recently been made, that additional information material to the examination of this application does not exist, or that this citation constitutes prior art.

Respectfully submitted,

By: 

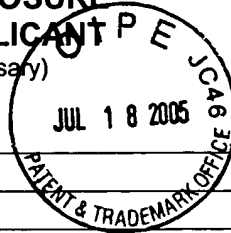
Georgann S. Grunebach, Reg. No. 33,179

The DIRECTV Group, Inc.
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Telephone No. (310) 964-4615

Date: July 14, 2005

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)	Complete if Known	
	Application Number	09/973,270
	Filing Date	October 5, 2001
	First Named Inventor	Donald C.D. Chang
	Art Unit	2634
	Examiner Name	Linda Wong
Sheet 1 of 2	Attorney Docket Number	PD-089418A

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No.	Document Number Number-Kind Code	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-3,673,606	06-1972	Maune, James J.	
		US-4,926,186	05-1990	Kelly, Robert J.	

FOREIGN PATENT DOCUMENTS

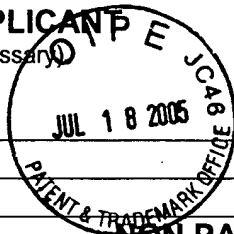
Examiner Initials*	Cite No.	Foreign Patent Document Country Code-Number-Kind Code	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		EP 0190927	08-1986	Sangster, Alan John		
		EP 0647976	04-1995	Uematsu, Masahiro et al.		
		WO 97/33342 (Canadian equivalent 2,217,730 also enclosed)	09-1997	Goto, Naohisa et al.		

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)	Complete if Known	
	Application Number	09/973,270
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	Art Unit	2634
	Examiner Name	Linda Wong
Sheet 2 of 2	Attorney Docket Number	PD-089418A



NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
		MIURA, RYU et al., "Beamforming Experiment with a DBF Multibeam Antenna in a Mobile Satellite Environment", IEEE, April 1997, Vol. 45, No. 4, XP 000686406	

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